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Term:

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Search History

DATE: Monday, March 13, 2006 [Printable Copy](#) [Create Case](#)

Set Name Query

side by side

Hit Count Set Name
result set

DB=USPT; PLUR=YES; OP=OR

L17 '5963932'.pn.

1 L17

L16 '5963932'.pn.

1 L16

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

L15 113 and 707/9

10 L15

L14 113 and 707/2

21 L14

L13 110 and (query adj rule or query with rule or query near rule)

256 L13

L12 110 and query adj rule

21 L12

L11 19 and query with rule

0 L11

L10 database with directory

10221 L10

DB=USPT; PLUR=YES; OP=OR

L9 (6408336 | 6088451 | 6073242 | 6144959 | 5671360)! [PN]

5 L9

DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; PLUR=YES; OP=OR

L8 ('6772157')[ABPN1,NRPN,PN,TBAN,WKU]

2 L8

L7 L5 and (data with base or database) with directory

46 L7

L6 L5 and directory with service

11 L6

L5 L4 and users

51 L5

<u>L4</u>	L3 and domain	51	<u>L4</u>
<u>L3</u>	L2 and community	61	<u>L3</u>
<u>L2</u>	(query near rule and construct\$ or construct\$ near query near rule)	283	<u>L2</u>
<u>L1</u>	query near rule and construct\$	276	<u>L1</u>

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L14: Entry 10 of 21

File: USPT

Mar 25, 2003

DOCUMENT-IDENTIFIER: US 6539379 B1

**** See image for Certificate of Correction ****

TITLE: Method and apparatus for implementing a corporate directory and service center

Brief Summary Text (7):

One relatively recently available method for storage of information is use of a directory server and a lightweight directory access protocol (LDAP). A directory server stores data entries in name-value or attribute-value pairs. Utilizing LDAP, queries can be made of the directory server, thereby locating a set of data entries which match the query. As a result, the information often stored in databases may be stored in a medium accessible to a directory server, and queries may be used to access this information. However, the directory server does not feature the strong typing capabilities that databases do. As an example, a data entry intended to be a telephone number, named `phone` and intended to store only numeric values, will store the value "four-one-five" just as easily as it will store "415" in a directory server. Likewise, a database may allow a restriction on the size of a field of characters, whereas the directory server may store the data as a string of ASCII characters, but not limit the length of the string.

Drawing Description Text (3):

FIG. 1A illustrates some of the information associated with an exemplary employee as it might be stored in a database such as a directory server.

Detailed Description Text (5):

Turning to FIG. 1A, some of the information associated with an exemplary employee as it may be stored in a database such as a directory server is illustrated. The information is stored in a data entry, with a unique identifier by which the data entry may be accessed. This unique identifier may also be referred to as a distinguished name or dn. In one embodiment, this identifier includes the name of the employee, and the organization in which the employee works. The information actually stored may include data items such as a picture 110 (such as a JPEG file, for example), a Name 112, Title 114, Phone Number 116, Email Address 118, Office location 120, Fax number 122, Cell phone number 124, Pager number 126, Webpage address 128, Manager name 130, Assistant 132, Department 134, Building 138, Address 140 (or mail stop for example), SSN 142 (Social Security Number), Salary 144, Home Phone number 146, and Home Address 148. Note that each employee might not have information stored for each item listed above, and other items may be added to the data entry. Also, each data item may have its own format, such that the data stored in Phone number 116, Fax number 122 and Cell phone number 124 are all alphanumeric, whereas the information stored in a data items such as Name 112 is alphabetic only. Direct Reports 136 represent a special case, in that in one embodiment Direct Reports 136 is not actually stored in the data entry, but is derived from other data entries that make reference to the data entry in question. In an alternative embodiment, the value of Direct Reports 136 may be stored in the data entry, either as unique identifiers referring to the direct reports, or as names of the direct reports, for example.

Detailed Description Text (75):

Likewise, access control may be as granular as necessary, such that in one

embodiment access may be granted to sets of data entries or single data entries on an attribute by attribute basis. Furthermore, in one embodiment, access control may be determined by rules in the form of queries, similar to the queries of FIGS. 5A and 5B above. Thus, a query may be formed such as Manager=`Lou Reed`, and those employees reporting to Lou Reed 3108 (the CIO) may have access to all information. Additionally, access control may be separated such that most employees have access for viewing but not for requesting changes, or for viewing and requesting but not approving changes. A first employee may be able to view information about John Smith 1066, whereas a second employee may be able to view and request changes of information about John Smith 1066 and a third employee may be able to approve such changes.

Field of Search Class/SubClass (1):
707/2

US Reference US Original Classification (11):
707/2

US Reference Group (11):
6189003 20010200 Leal 707/2

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L6: Entry 11 of 11

File: USPT

Aug 3, 2004

US-PAT-NO: 6772157

DOCUMENT-IDENTIFIER: US 6772157 B2

TITLE: Delegated administration of information in a database directory

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
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Aggour; Kareem Sherif	Schenectady	NY		
Kornfein; Mark Mitchell	Latham	NY		

US-CL-CURRENT: [707/9](#); [707/10](#), [709/206](#), [709/229](#), [709/246](#), [726/1](#), [726/3](#)

CLAIMS:

What is claimed is:

1. A method for managing information associated with a user community, comprising: specifying the information associated with the user community into at least one administrative domain, wherein the at least one administrative domain is a managed object that comprises a set of users, a set of modifiable user attributes and a set of allowable values for the user attributes; granting administrative privileges for managing the information associated with the user community according to the set of users, attributes and allowable attribute values specified for the at least one administrative domain, wherein the administrative privileges include at least one of delegation authority and edit authority; and specifying the at least one administrative domain into administrative sub-domains each having a set of users, attributes and allowable attribute values and granting administrative privileges for administrating the user community information associated with each sub-domain, wherein the specifying and granting continue to an arbitrary level with respect to the at least one administrative domain.
2. The method according to claim 1, wherein the administrative privileges for administrating the user community information associated with each sub-domain includes at least one of delegation authority and edit authority.
3. The method according to claim 1, further comprising delegating the granted administrative privileges for the at least one administrative domain and administrative sub-domains.
4. A method for providing delegated administration of a user community, comprising: dividing the user community into at least one administrative

domain, wherein the at least one administrative domain is a managed object that comprises a set of users, a set of modifiable user attributes and a set of allowable values for the user attributes; granting administrative privileges to an administrator for managing user community information according to the set of users, attributes and allowable attribute values specified for the at least one administrative domain, wherein the administrative privileges include at least one of delegation authority and edit authority; and delegating the granted administrative privileges from the administrator to another administrator for managing user community information associated with the at least one administrative domain.

5. The method according to claim 4, further comprising dividing the at least one administrative domain into administrative sub-domains each having a set of users, attributes and allowable attribute values.

6. The method according to claim 5, further comprising delegating the granted administrative privileges to other administrators for managing user community information associated with the administrative sub-domains.

7. The method according to claim 4, further comprising delegating the granted administrative privileges to additional administrators for managing user community information associated with the at least one administrative domain.

8. The method according to claim 4, further comprising dividing the at least one administrative domain into administrative sub-domains each having a set of users, attributes and allowable attribute values and delegating administrative privileges for managing user community information associated with each domain, wherein the dividing and delegating continue to an arbitrary level with respect to the at least one administrative domain.

9. A method for providing delegated administration of a user community with a client system, comprising: dividing the user community into at least one administrative domain, wherein the at least one administrative domain is a managed object that comprises a set of users, a set of modifiable user attributes and a set of allowable values for the user attributes; granting administrative privileges to an administrator for managing user community information according to the set of users, attributes and allowable attribute values specified for the at least one administrative domain, wherein the administrative privileges include at least one of delegation authority and edit authority; dividing the at least one administrative domain into administrative sub-domains each having set of users, attributes and allowable attribute values; and delegating the granted administrative privileges from the administrator to other administrators for managing user community information associated with the administrative sub-domains.

10. The method according to claim 9, further comprising dividing the administrative sub-domains into more domains each having a set of users, attributes and allowable attribute values and delegating administrative privileges for managing user community information associated with each of these domains, wherein the dividing and delegating continue to an arbitrary level with respect to the at least one administrative domain.

11. The method according to claim 9, wherein the delegating of granted administrative privileges comprises having an administrator with delegation authority delegating at least one of delegation authority and edit authority and an administrator with edit authority delegating edit authority.

12. A method for enabling an administrator to control administration of

information associated with a user community, comprising: providing the information associated with the user community to the administrator; prompting the administrator to define at least one administrative domain for the user community, wherein the at least one administrative domain is a managed object that comprises a set of users, a set of modifiable user attributes and a set of allowable values for the user attributes; prompting the administrator to define administrative privileges for managing user community information according to the set of users, attributes and allowable attribute values defined for the at least one administrative domain, wherein the administrative privileges include at least one of delegation authority and edit authority; and using the at least one administrative domain and administrative privileges defined by the administrator to control administration of the information associated with the user community.

13. The method according to claim 12, further comprising prompting the administrator to divide the at least one administrative domain into administrative sub-domains each having a set of users, attributes and allowable attribute values.

14. The method according to claim 13, further comprising prompting the administrator to delegate the granted administrative privileges from the administrator to other administrators for the administrative sub-domains.

15. The method according to claim 14, further comprising prompting the administrator to divide the administrative sub-domains into more domains each having a set of users, attributes and allowable attribute values and delegate administrative privileges for managing user community information associated with each of these domains, wherein the prompting to divide and delegate continues to an arbitrary level with respect to the at least one administrative domain.

16. A method for enabling an administrator to delegate administrative control of a user community, comprising: providing information associated with the user community; prompting the administrator to define at least one administrative domain for the user community, wherein the at least one administrative domain is a managed object that comprises a set of users, a set of modifiable user attributes and a set of allowable values for the user attributes; prompting the administrator to define administrative privileges for managing user community information according to the set of users, attributes and allowable attribute values defined for the at least one administrative domain, wherein the administrative privileges include at least one of delegation authority and edit authority; prompting the administrator to divide the at least one administrative domain into administrative sub-domains each having a set of users, attributes and allowable attribute values; prompting the administrator to delegate the granted administrative privileges from the administrator to other administrators for managing user community information associated with the administrative sub-domains; and using the administrative domains and administrative privileges to control administration of the information associated with the user community.

17. A user community administration tool for managing information associated with a user community, comprising: a domain definition component that defines the user community into at least one administrative domain, wherein the at least one administrative domain is a managed object that comprises a set of users, a set of modifiable user attributes and a set of allowable values for the user attributes; an administrative privileges component that grants administrative privileges for managing user community information according to the set of users, attributes and allowable attribute values defined for the at least one administrative domain, wherein the administrative privileges include

at least one of delegation authority and edit authority; and an information management component that manages user community information associated with the at least one administrative domain in accordance with the granted administrative privileges.

18. The tool according to claim 17, wherein the domain definition component specifies the at least one administrative domain into administrative sub-domains each having a set of users, attributes and allowable attribute values.

19. The tool according to claim 18, wherein the administrative privileges component delegates the administrative privileges for managing user community information associated with the administrative sub-domains.

20. The tool according to claim 17, wherein the administrative privileges component delegates the granted administrative privileges for managing user community information associated with the at least one administrative domain.

21. The tool according to claim 17, wherein the domain definition component specifies administrative sub-domains each having a set of users, attributes and allowable attribute values and the administrative privileges component delegates the administrative privileges for managing user community information associated with the domains to an arbitrary level with respect to the at least one administrative domain.

22. A system for managing information associated with a user community, comprising: a database directory containing a plurality of user information; a user community administration tool to manage the plurality of user information in the database directory; the user community administration tool comprising a domain definition component to define the user community into at least one administrative domain, wherein the at least one administrative domain is a managed object that comprises a set of users, a set of modifiable user attributes and a set of allowable values for the user attributes; an administrative privileges component to grant administrative privileges for managing user community information according to the set of users, attributes and allowable attribute values defined for the at least one administrative domain, wherein the administrative privileges include at least one of delegation authority and edit authority; and an information management component to manage user community information associated with the at least one administrative domain in accordance with the granted administrative privileges; and a first computing unit configured to serve the user community administration tool and the database directory.

23. The system according to claim 22, wherein the domain definition component specifies the at least one administrative domain into administrative sub-domains each having a set of users, attributes and allowable attribute values.

24. The system according to claim 23, wherein the administrative privileges component delegates the administrative privileges for managing user community information associated with the administrative sub-domains.

25. The system according to claim 22, wherein the administrative privileges component delegates the granted administrative privileges for managing user community information associated with the at least one administrative domain.

26. The system according to claim 22, further comprising a second computing unit configured to execute the user community administration tool served from the first computing unit over a network.

27. A system for managing information associated with a user community, comprising: a database directory containing a plurality of user information; a user community administration tool to manage the plurality of user information in the database directory; the user community administration tool comprising a domain definition component to define the user community into at least one administrative domain, wherein the at least one administrative domain is a managed object that comprises a set of users, a set of modifiable user attributes and a set of allowable values for the user attributes; an administrative privileges component to grant administrative privileges for managing user community information according to the set of users, attributes and allowable attribute values defined for the at least one administrative domain, wherein the administrative privileges include at least one of delegation authority and edit authority; and an information management component to manage user community information associated with the at least one administrative domain in accordance with the granted administrative privileges; a first computing unit configured to execute the user community administration tool; a network; and a second computing unit configured to serve the database directory and the user community administration tool to the first computing unit over the network.

28. A user community administration tool for providing delegated administration of a user community, comprising: means for dividing the user community into at least one administrative domain, wherein the at least one administrative domain is a managed object that comprises a set of users, a set of modifiable user attributes and a set of allowable values for the user attributes; means for granting administrative privileges to an administrator for managing user community information according to the set of users, attributes and allowable attribute values specified for the at least one administrative domain, wherein the administrative privileges include at least one of delegation authority and edit authority; and means for delegating the granted administrative privileges to another administrator for managing user community information associated with the at least one administrative domain.

29. The tool according to claim 28, further comprising means for dividing the at least one administrative domain into administrative sub-domains each having a set of users, attributes and allowable attribute values.

30. The tool according to claim 29, further comprising means for delegating the granted administrative privileges to other administrators for managing user community information associated with the administrative sub-domains, wherein an administrator with delegation authority delegates at least one of delegation authority and edit authority, while an administrator with edit authority delegates edit authority.

31. The tool according to claim 28, further comprising means for delegating the granted administrative privileges to additional administrators for managing user community information associated with the at least one administrative domain.

32. A system for providing delegated administrative control of a user community, comprising: a database directory containing a plurality of user information associated with the user community; and a user community administration tool to facilitate administrative control of the user information in the database directory; the user community administration tool comprising a domain definition component to define the user community into at least one administrative domain, wherein the at least one administrative domain is a managed object that comprises a set of users, a set of modifiable

user attributes and a set of allowable values for the user attributes; an administrative privileges component to grant administrative privileges for managing user community information according to the set of users, attributes and allowable attribute values defined for the at least one administrative domain, wherein the administrative privileges include at least one of delegation authority and edit authority; and an information management component to manage user community information associated with the at least one administrative domain in accordance with the granted administrative privileges.

33. The system according to claim 32, wherein the domain definition component divides the at least one administrative domain into administrative sub-domains each having a set of users, attributes and allowable attribute values.

34. The system according to claim 33, wherein the administrative privileges component delegates the administrative privileges to an arbitrary level of administrators for managing user community information associated with the administrative sub-domains.

35. The system according to claim 32, wherein the administrative privileges component delegates the granted administrative privileges from the administrator to other administrators for managing user community information associated with the at least one administrative domain.

36. A computer-readable medium storing computer instructions for instructing a computer system to provide delegated administration of a user community, the computer instructions comprising: dividing the user community into at least one administrative domain, wherein the at least one administrative domain is a managed object that comprises a set of users, a set of modifiable user attributes and a set of allowable values for the user attributes; granting administrative privileges to an administrator for managing user community information according to the set of users, attributes and allowable attribute values defined for the at least one administrative domain, wherein the administrative privileges include at least one of delegation authority and edit authority; and delegating the granted administrative privileges to another administrator for managing user community information associated with the at least one administrative domain.

37. The computer-readable medium according to claim 36, further comprising instructions for dividing the at least one administrative domain into administrative sub-domains each having a set of users, attributes and allowable attribute values.

38. The computer-readable medium according to claim 37, further comprising instructions for delegating the granted administrative privileges to other administrators for managing user community information associated with the administrative sub-domains.

39. The computer-readable medium according to claim 36, further comprising instructions for delegating the granted administrative privileges to additional administrators for managing user community information associated with the at least one administrative domain.

40. The computer-readable medium according to claim 36, further comprising instructions for dividing the at least one administrative domain into administrative sub-domains each having a set of users, attributes and allowable attribute values and delegating administrative privileges for managing user community information associated with each domain, wherein the

dividing and delegating continue to an arbitrary level with respect to the at least one administrative domain.

41. The computer-readable medium according to claim 36, further comprising instructions for managing user community information associated with the at least one administrative domain according to the delegated administrative privileges.

42. A computer-readable medium storing computer instructions for instructing a computer system to provide delegated administration of a user community, the computer instructions comprising: dividing the user community into at least one administrative domain, wherein the at least one administrative domain is a managed object that comprises a set of users, a set of modifiable user attributes and a set of allowable values for the user attributes; granting administrative privileges to an administrator for managing user community information according to the set of users, attributes and allowable attribute values defined for the at least one administrative domain, wherein the administrative privileges include at least one of delegation authority and edit authority; dividing the at least one administrative domain into administrative sub-domains each having a set of users, attributes and allowable attribute values; and delegating the granted administrative privileges from the administrator to other administrators for managing user community information associated with the administrative sub-domains.

43. The computer-readable medium according to claim 42, further comprising instructions for dividing the administrative sub-domains into more domains each having a set of users, attributes and allowable attribute values and delegating administrative privileges for managing user community information associated with each of these domains, wherein the dividing and delegating continue to an arbitrary level with respect to the at least one administrative domain.

44. A computer-readable medium storing computer instructions for instructing a computer system to enable an administrator to control administration of a user community, the computer instructions comprising: providing information associated with the user community to the administrator; prompting the administrator to define at least one administrative domain for the user community, wherein the at least one administrative domain is a managed object that comprises a set of users, a set of modifiable user attributes and a set of allowable values for the user attributes; prompting the administrator to define administrative privileges for managing user community information according to the set of users, attributes and allowable attribute values defined for the at least one administrative domain, wherein the administrative privileges include at least one of delegation authority and edit authority; and using the at least one administrative domain and administrative privileges defined by the administrator to control administration of the information associated with the user community.

45. The computer-readable medium according to claim 44, further comprising instructions for prompting the administrator to divide the at least one administrative domain into administrative sub-domains each having a set of users, attributes and allowable attribute values.

46. The computer-readable medium according to claim 45, further comprising instructions for prompting the administrator to delegate the granted administrative privileges from the administrator to other administrators for managing user community information associated with the administrative sub-domains.

47. The computer-readable medium according to claim 46, further comprising instructions for prompting the administrator to divide the administrative sub-domains into more domains each having a set of users, attributes and allowable attribute values and delegate administrative privileges for managing user community information associated with each of these domains, wherein the prompting to divide and delegate continues to an arbitrary level with respect to the at least one administrative domain.

48. A computer-readable medium containing computer instructions for instructing a computer system to enable an administrator to delegate administration control of a user community, the computer instructions comprising: providing information associated with the user community; prompting the administrator to define at least one administrative domain for the user community, wherein the at least one administrative domain is a managed object that comprises a set of users, a set of modifiable user attributes and a set of allowable values for the user attributes; prompting the administrator to define administrative privileges for managing user community information according to the set of users, attributes and allowable attribute values defined for the at least one administrative domain, wherein the administrative privileges include at least one of delegation authority and edit authority; prompting the administrator to divide the at least one administrative domain into administrative sub-domains each having a set of users, attributes and allowable attribute values; prompting the administrator to delegate the granted administrative privileges from the administrator to other administrators for managing user community information associated with the administrative sub-domains; and using the at least one administrative domain and administrative sub-domains and administrative privileges and delegated privileges defined by the administrator to control administration of the information associated with the user community.

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Aug 3, 2004

US-PAT-NO: 6772157

DOCUMENT-IDENTIFIER: US 6772157 B2

TITLE: Delegated administration of information in a database directory

DATE-ISSUED: August 3, 2004

INVENTOR-INFORMATION:

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Aggour; Kareem Sherif	Schenectady	NY		
Kornfein; Mark Mitchell	Latham	NY		

ASSIGNEE-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY	TYPE CODE
General Electric Company	Niskayuna	NY			02

APPL-NO: 09/761000 [\[PALM\]](#)

DATE FILED: January 16, 2001

PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATIONS This application claims the benefit of U.S. Provisional Application Serial No. 60/241,645 filed on Oct. 19, 2000, and entitled "Approach And Design For Software To Facilitate Delegated Administration Of Information In A Database Directory," which is incorporated by reference herein in its entirety.

INT-CL-ISSUED: [07] [G06](#) [F](#) [17/30](#)US-CL-ISSUED: [707/9](#); [707/10](#), [709/206](#), [709/229](#), [709/246](#), [713/201](#)US-CL-CURRENT: [707/9](#); [707/10](#), [709/206](#), [709/229](#), [709/246](#), [726/1](#), [726/3](#)FIELD-OF-CLASSIFICATION-SEARCH: [707/10](#), [707/3](#), [707/101](#), [707/9](#), [707/103](#), [709/217](#), [709/218](#), [709/227](#), [709/229](#), [709/206](#), [709/246](#), [713/201](#)

See application file for complete search history.

PRIOR-ART-DISCLOSED:

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	PAT-NO	ISSUE-DATE	PATENTEE-NAME	US-CL
<input type="checkbox"/>	<u>5671360</u>	September 1997	Hambrick et al.	705/9
<input type="checkbox"/>	<u>6073242</u>	June 2000	Hardy et al.	713/201
<input type="checkbox"/>	<u>6088451</u>	July 2000	He et al.	
<input type="checkbox"/>	<u>6144959</u>	November 2000	Anderson et al.	
<input type="checkbox"/>	<u>6408336</u>	June 2002	Schneider et al.	709/229

OTHER PUBLICATIONS

Oblix NetPoint 4.0 [online]. Oblix, Inc. [retrieved on Dec. 18, 2000]. Retrieved from the Internet:<URL: http://www.oblix.com/products_and_solutions/netpoint/>.

Securant Products [online]. Securant Technologies [retrieved on Dec. 18, 2000]. Retrieved from the Internet: <URL: http://www.securant.com/ie/main_products.html>.

Delegated Management Services [online]. Netegrity, Inc. [retrieved on Dec. 18, 2000]. Retrieved from the Internet: <URL: <http://www.netegrity.com/products/dms.html>>.

iPlanet Delegated Administrator 4.5 Datasheet [online]. iPlanet International [retrieved on Dec. 18, 2000]. Retrieved from the Internet:<URL: http://iplanet.com/products/infrastructure/dir_security/del_admin/>.

ART-UNIT: 2172

PRIMARY-EXAMINER: Corrielus; Jean M.

ATTY-AGENT-FIRM: Goldman; David C. Patonode; Patrick K.

ABSTRACT:

A delegated administration tool for administrating information in a database directory. The delegated administration tool enables an administrator to delegate administration and various types of administrative authority to other users within a community of users. In particular, an administrator with proper authority may create new administrative domains and assign authority referred to as delegation authority and edit authority to other users. The creation of additional administrative domains and the assignment of the delegation authority and edit authority can continue to an arbitrary level within the community.

48 Claims, 17 Drawing figures

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<u>L9</u>	l1 and query adj rule	8	<u>L9</u>
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<i>DB=EPAB; PLUR=YES; OP=OR</i>			
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<u>L6</u>	WO-9516956-A1.did.	1	<u>L6</u>
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<u>L5</u>	L4 and domain	26	<u>L5</u>
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